



## EIZO Expands Medical Imaging Solutions to Include Endoscopic Monitors with Release of RadiForce ES240W

Hakusan, Japan August 3, 2009 – Eizo Nanao Corporation today announced it is expanding its RadiForce series of medical imaging solutions from primarily a PACS-based monitor family to include monitors for endoscopy. EIZO's first RadiForce product for endoscopy will be the RadiForce ES240W, a 2.3 megapixel 24.1-inch color LCD monitor.



The advancement of endoscopic video camera systems for examination, diagnosis, and treatment has brought increased demand from physicians for monitors that reproduce the color and detail of these systems. To produce optimal images for endoscopy, EIZO integrated moving image playback technology from its consumer line of display products into the RadiForce ES240W.

The core of the RadiForce ES240W's moving image technology is an EIZO-developed ASIC (application specific integrated circuit). This ASIC adjusts color gradations so that midtones, necessary for displaying internal organs and haemostatic images, are displayed smoothly. It also adjusts color temperature so physicians can more easily observe delicate differences in reds and yellows.

The RadiForce ES240W has a wide color gamut of 92% compared to NTSC which means it can reproduce many shades of cyan, green, yellow, and bright red that monitors with a narrower color gamut cannot reproduce.

The RadiForce ES240W has a 1920 × 1200 native resolution and can display full HD images at 1920 × 1080. Its input signals support includes digital DVI and analog RGB for PC signal connections as well as composite, component, and S-Video for video signal connections. It supports NTSC and PAL broadcasting signals.

To minimize motion artifacts that normally occur during interlace/progressive (I/P) conversion, the RadiForce ES240W detects the amount of change between images over time and applies the ideal amount of correction. In addition to the standard 480i to 480p (interlace to progressive) conversion, it produces high quality images even when doing high-speed processing necessary for 1080i to 1080p conversion.

A "Thru" mode reduces input lag with endoscope signals to approximately one frame or 1/60<sup>th</sup> of a second. This is equivalent to just one frame of a progressive signal, or two frames of an interlace signal. With Thru mode activated, what the physician sees on screen is virtually synchronous with the actions of the procedure. Additionally, an overdrive circuit reduces gray-to-gray response time and ensures the moving images look clear with an absolute minimum of blurring and ghosting.

### Additional Features

- EIZO patented brightness stabilization function quickly stabilizes the brightness level at startup or upon wakeup and compensates for brightness fluctuations caused by the ambient



temperature and the passage of time.

- Picture-in-Picture for one PC (main screen) and one video input (sub-screen). The location and transparency of the sub-screen can be adjusted by remote control.
- Cabinet available in white silver and black.<sup>1</sup>
- Various flexible arm-mount and wall-mount options (sold separately).
- Compliance with stringent medical, safety, and EMC emissions standards including TÜV/GM, the CE Medical Device Directive, and UL60601-1.
- Three-year warranty.

#### Availability

The RadiForce ES240W is now shipping. Date of availability varies by country so please contact the EIZO subsidiary or distributor in your country for details.

#### About EIZO

Eizo Nanao Corporation is a leading global manufacturer of high-end visual display products with a wide range of LCD monitor systems. The image quality, long-term reliability, and innovative features of EIZO monitors make them the products of choice in many financial trading rooms, hospitals, back offices, and design studios. EIZO is based in Japan and represented in more than sixty countries by a network of exclusive distributors.

For more information, please contact:

Eizo Nanao Corporation  
153 Shimokashiwano  
Hakusan, Ishikawa 924-8566  
Japan  
Phone: +81 76 277-6792  
Fax: +81 76 277-6793  
radiforce.com

<sup>1</sup> Cabinet color availability varies by country and territory.

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